

Óbuda University Bánki Donát Faculty of Mechanical and Safety Engineering		Responsible unit: Institute of Material and Manufacturing Science	
Subject name and ID: Computer aided design of machining technology II. BAGFS2ANND Credit: 3 full time course; semester: 2018/2019. II. <i>Credits:</i>			
Course: Mechanical engineering BSc/CAD-CAM III		Time:	L.:Tue 11:40 – 12:25 132. S: Tue 9:50 – 11:30 136.
Responsible:	Dr. Mikó Balázs Assoc. Prof.	Teacher:	Dr. Mikó Balázs (MB) Oláh Ferenc (OF)
Requirement (preliminary study)		Computer aided design of machining technology I BAGFS1ANND	
Number of lessons per week	Lecture: 1	Seminar: -	Lab: 2 Cons.: -
Rating	Exam		
Curriculum			
<i>The aim of the subject is to present the engineering tasks, the methods and techniques of manufacturing process planning in field of cutting technologies. The students will study the workflow of the process planning. The second part of the subject focuses to the fundamentals and application of the CAM systems, primary in CNC milling and turning.</i>			
<i>Tematika: lásd ütemezés</i>			
Schedule:			
Week	Topic		
1.	Dimension chain analysis		MB
2.	Classification of CAM systems, CAM workflow		MB
3.	2.5D milling in CATIA system (HW2 in)		OF
4.	Milling strategies in CAM systems		MB
5.	2.5D milling in CATIA system		OF
6.	2.5D milling in CATIA system		OF
7.	Process of manufacturing planning, Planning methods; Operation order planning (HW1 in)		MB
8.	3D milling in CATIA (HW3 in)		OF
9.	3D milling in CATIA		OF
10.	Education break		
11.	Open lab (preparing homework)		OF
12.	Group technology, Standardization in process planning, Cost estimation		MB
13.	3D milling in CATIA		OF
14.	CNC Milling		OF
Requirements			
3 homework 1. HW1 – Operation order planning 2. HW2 – 2.5D milling in CATIA system 3. HW3 – 3D milling in CATIA system			
Exam: Short test + Oral exam + Present HW1, HW2, HW3			
References: <ul style="list-style-type: none">Moodle			